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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/080,745	02/22/2002	Agnes Y. Ngai	END920010078	2972
30400	7590 12/01/2004	,	EXAM	INER
HESLIN RO	OTHENBERG FARL	SENFI, BEHROOZ M		
ALBANY, N			ART UNIT	PAPER NUMBER
			2613	

DATE MAILED: 12/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/080,745	NGAI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Behrooz Senfi	2613			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be within the statutory minimum of thirty (30) divill apply and will expire SIX (6) MONTHS fro cause the application to become ABANDON	timely filed ays will be considered timely. m the mailing date of this communication. IED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on					
2a) This action is FINAL . 2b) ☑ This	action is non-final.				
3) Since this application is in condition for allowar closed in accordance with the practice under E					
Disposition of Claims					
4) Claim(s) <u>1-32</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) <u>1-32</u> is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori	s have been received. s have been received in Applica rity documents have been recei	ation No			
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
Notice of References Cited (PTO-892)	4) 🔲 Interview Summa Paper No(s)/Mail				
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 2/22/2002. 		Patent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 101

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-4, 9-19 and 24-32 are rejected under 35 U.S.C. 102(e) as being anticipated by Deierling (US 6,239,847).

Regarding claims 1 and 16, Deierling '847discloses, "method for filtering pixels of video frames" (i.e. fig. 3), and "obtaining pixel values of video frames of a plurality of video frames" (i.e. fig. 3, col. 1, lines 5 - 10) and "programmably, spatially horizontally filtering the pixel values of the video frames" (i.e. fig. 3, abstract).

Regarding claims 2 – 3 and 17 - 18, Deierling '847 discloses, "horizontal noise filtering" (i.e. fig. 3, 301), and "image scaling in claim 3" (i.e. abstract).

Regarding claims 4 and 19, Deierling '847 discloses, "filter coefficients for use in filtering of the pixel values" (i.e. fig. 3, 304 and 303).

Regarding claims 9, 14 and 24, the limitation as claimed "multiple sets of filter coefficients and selecting" reads on (i.e. fig. 3, 304, and 303).

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Regarding claims 10 and 25, the limitations "selecting whether to perform filtering or filtering and scaling" as claimed, reads on (i.e. col. 5, lines 46 - 60).

Regarding claims 11 and 26, the limitations "preprocessing in real time" as claimed, reads on (i.e. col. 7, lines 37 - 38).

Regarding claims 12 and 27, the limitations claimed are substantially similar to claim 1 and 10, therefore the grounds for rejecting claims 1 and 10 also applies here.

Regarding claims 13 and 28, the limitations "filtering prior to encoding" as claimed, reads on (i.e. fig. 3, 301 – 304, are prior to encoding and col. 3, lines 20+).

Regarding claims 15 and 30, the limitations "repeatedly employing multiple sets of filter coefficients" as claimed, reads on (i.e. fig. 3, 310).

Regarding claims 29, the limitations claimed are substantially similar to claim 14, therefore the ground for rejecting claim 14 also applies here.

Regarding claims 31 - 32, the limitations "program storage device/software implementation" as claimed reads on (i.e. fig. 1, and programmable filter).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 5 8 and 20 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Deierling '847.

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Regarding claims 5 and 20, Although Deierling '847 does not explicitly mention "switching coefficients". However Deierling '847 does teach (i.e. fig. 3, col. 4, lines 61 - 54), that the necessary coefficients from coefficient tables 304 would be selected by the filter 303 while performing filtering, which is equivalent to "switching coefficients" and have similar effect as "switching coefficients".

Regarding claims 6 and 21, the limitations claimed "dynamically selecting new filter coefficients" reads on, Deierling '847 (i.e. fig. 3), where teaches the necessary coefficients would be selected by the filter 303.

Regarding claims 7 – 8 and 22 - 23, Deierling '847 does not explicitly mention "luminance and chrominance". However, Official Notice taken to note that, In general video signals has both "luminance and chrominance" component, and in a filtering process of video signal both components "luminance and chrominance" would be subject to filtering. For example: Deierling '847 teaches programmable filtering in digital video signal processing and/or communication system (i.e. fig. 3), in which the incoming signal would include the "luminance and chrominance" components, therefore it would have been obvious to one skilled in the art that the filtering process of incoming video signal including "luminance and chrominance" would be subject to filtering process.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Behrooz Senfi** whose telephone number is **(703)305-0132**.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Chris Kelley** can be reached on **(703)305-4856**.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Or faxed to:

(703) 872-9314

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relative to the status of the application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

B. S. 飞。。

11/22/2004

CHRIS KELLEY SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800